

**METHOD, SYSTEM AND RECORDING MEDIUM FOR
MAINTAINING THE ORDER OF NODES IN A HEIRARCHICAL
DOCUMENT**

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ABSTRACT OF THE DISCLOSURE

A method, a system and recording medium for maintaining the order of nodes in a hierarchical document. The method may select the maximum
10 and the minimum number of children for each node, build an auxiliary ordered tree having at least as many leaves as atoms within the hierarchical document based upon the selected maximum and minimum number of children for each node, attach the atoms to the leaves of the auxiliary ordered tree, and label each of the nodes in the auxiliary ordered tree.